

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-16 (cancelled)

Claim 17 (Currently Amended) A method of improving soil comprising contacting the soil with a composition comprising a seed flour containing at least one glucosinolate and the enzyme myrosinase, wherein the seed flour contains a seed selected from the group consisting of seeds of *Brassica carinata* A. B., seeds of *Capparaceae*, and seeds of *Barbarea verna*; wherein the seed flour has been de-oiled.

Claim 18 (Original) The method of Claim 17, wherein the seed flour has been de-oiled at a temperature below 75°C.

Claim 19 (Original) The method of Claim 18, wherein the seed flour has been de-oiled at ambient temperature.

Claim 20 (Original) The method of Claim 17, wherein the seeds are seeds of *Brassica carinata* A.B..

Claim 21 (Original) The method Claim 17, wherein the seeds are seeds of *Capparaceae*.

Claim 22 (Original) The method of Claim 17, wherein the seeds are of at least two different vegetable varieties.

Claim 23 (Currently Amended) A method of killing soil pathogens and soil parasites comprising contacting at least one of a soil pathogen and a soil parasite with a composition comprising a seed flour containing at least one glucosinolate and the enzyme myrosinase, wherein the seed flour contains a seed selected from the group consisting of seeds of *Brassica carinata* A. B.,

seeds of *Capparaceae*, and seeds of *Barbarea verna*; wherein the seed flour has been de-oiled at a temperature below 75°C.

Claim 24 (Original) The method of Claim 23, wherein the soil parasites are selected from the group consisting of nematodes and wireworms.

Claim 25 (Original) The method of Claim 23, wherein the soil parasites are selected from the group consisting of weeds and insects.

Claim 26 (Original) The method of Claim 23, wherein the parasites are selected from the group consisting of *Fusarium clumorum*, *Meloidogyne incognita* (Kofoid and White) Chitwoody, *Agriotes sordidus*, *Agriotes utulatus*, and *Agriotes brevis*.

Claim 27 (Original) A method of killing soil fungal pathogens comprising contacting a soil fungal pathogen with a composition comprising a seed flour containing at least one glucosinolate and the enzyme myrosinase, wherein the seed flour contains a seed selected from the group consisting of seeds of *Brassica carinata* A. B., seeds of *Capparaceae*, and seeds of *Barbarea verna*.

Claim 28 (Original) The method of Claim 27, wherein the flour is fungitoxic to a fungi of the genus *Fusarium*.

Claim 29 (Currently Amended) The method of Claim 17, ~~wherein the composition and~~ further ~~comprises comprising~~ an identification phase to identify the seed flour containing at least one glucosinolate and at least one enzyme selected from the group consisting of glucosidasic enzymes and thioglucosidasic enzymes.

Claim 30 (Original) The method of Claim 29, wherein the at least one enzyme is myrosinase.

Claim 31 (Currently Amended) A method of improving soil comprising contacting a soil with a seed flour containing at least one glucosinolate and the enzyme myrosinase, wherein the seed flour is toxic to at least one organism selected from the group consisting of a nematode, a wireworm, a weed, an insect, *Meloidogyne incognita* (Kofoed and White) Chitwoody, *Agriotes sordidus*, *Agriotes utulatus*, and *Agriotes brevis*, and a fungi of the genus *Fusarium*; wherein the seed flour has been de-oiled.

Claim 32 (Original) The method of Claim 31, wherein the seed flour has been de-oiled at a temperature below 75°C.

Claim 33 (Original) A method of improving soil comprising contacting a soil with a flour made from at least one seed selected from the group consisting of seeds of *Brassica carinata* A. B., seeds of *Capparaceae*, and seeds of *Barbarea verna* wherein the flour has been de-oiled at a temperature below 75°C.

Claim 34 (Original) The method of Claim 33, wherein the flour is toxic to at least one organism selected from the group consisting of a nematode, a wireworm, a weed, an insect, *Meloidogyne incognita* (Kofoed and White) Chitwoody, *Agriotes sordidus*, *Agriotes utulatus*, and *Agriotes brevis*, and a fungi of the genus *Fusarium*.